

# **Soil and Water Remediation, Groundwater/Vadose Zone (RL-0030)**

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***Well siting for KR-4  
replacement injection wells***



***KR-4 expansion ion  
exchange columns***



***ZP-1 Expansion  
Electrical Installation***

## Overview

This section addresses Project Baseline Summary (PBS) RL-0030, *Soil and Water Remediation, Groundwater/Vadose Zone*.

NOTE: Unless otherwise noted, all information contained herein is as of the end of July 2008.

## Notable Accomplishments

### • River Corridor

- Completed the 100-NR-2 apatite barrier high-concentration injections.
- Initiated drilling of the 100-KR-4 replacement injection wells and the 100 KW chromium plume characterization wells.
- Submitted the Summary Report on Chromium Treatment Technology Information Exchange and the Decisional Draft Technical and Cost Evaluation for 100-HR-3.
- Installed three ion exchange treatment trains for the 100-KR-4 pump and treatment system expansion.
- Completed 54 of the planned 57 wells to be decommissioned in the 100 Areas this fiscal year.

### • Central Plateau

- Issued the 200-ZP-1 Rev. 0 Feasibility Study and Proposed Plan to RL.
- Initiated construction to connect four expansion wells to the 200-ZP-1 pump and treatment system.
- Authorized procurement of the 200-ZP-2 soil vapor extraction units.
- Decommissioned 13 and perforated another 6 of the planned 43 wells to be decommissioned in the 200 Areas this fiscal year.
- Accepted five 200-BP-5 groundwater characterization wells

### • Integration

- Completed 74 percent of baseline wells to be sampled (1772 of 2403 wells).

## FY 2008 Funds vs. Spend Forecast (\$M)

	Projected FY 2008 Funding	FY 2008 Fiscal Year Spending Forecast	Variance
Soil and Water Remediation, Groundwater/ Vadose Zone	\$ 116.5	\$ 113.2	\$ 3.3

## Schedule/Cost Performance (\$M)

Soil & Water Remediation, Groundwater/Vadose Zone	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance \$	Schedule Variance %	Cost Variance \$	Cost Variance %	Budget At Completion (FY08/CTD)
Current Period (Month)	\$10.4	\$11.3	\$11.6	\$1.0	9.5%	-\$0.2	-2.0%	\$103.0
Cumulative-to-Date (FY 2004-Present)	\$291.0	\$282.6	\$283.7	-\$8.5	-2.9%	-\$1.1	-0.4%	\$311.6

Numbers are rounded to the nearest \$0.1M and include the Closure Services allocation.

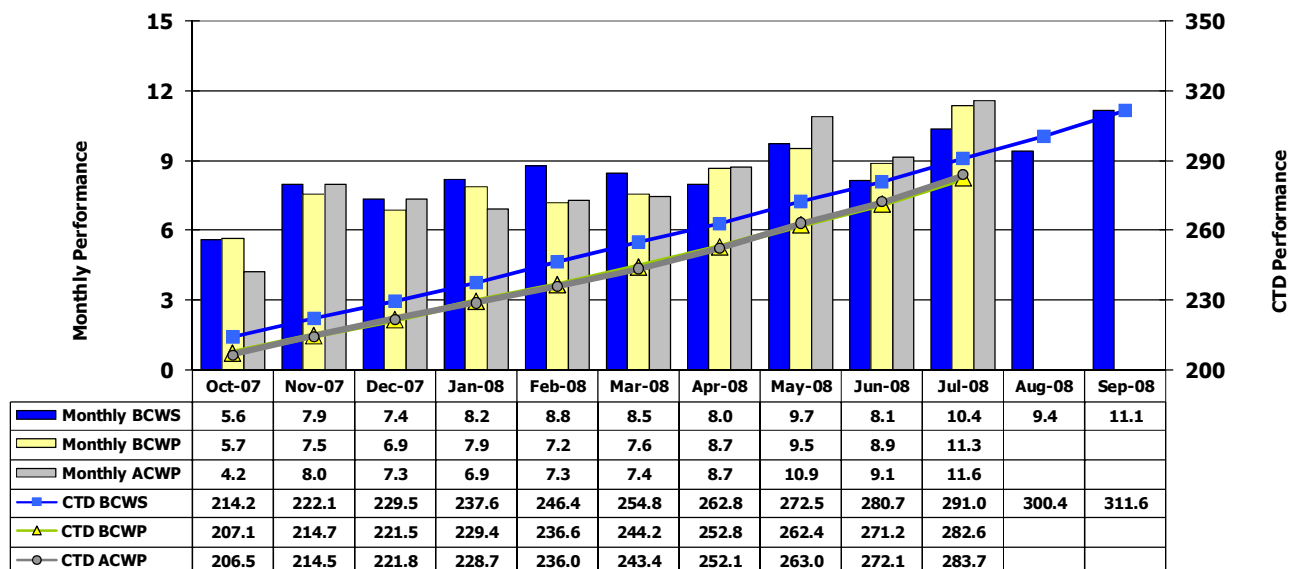
### CTD Schedule Performance (-\$8.5M/-2.9%):

- The CTD schedule variance is primarily due to:
  - Well drilling and decommissioning delays were due to delayed well location siting and delayed decommissioning contract placement while awaiting regulator concurrence on the wells to be decommissioned;
  - Delayed contract placement for Groundwater/Vadose Zone Integration;
  - Delayed start of 200-BP-5 high-risk "K" well due to heat-related safety concerns;
  - Delayed procurement of the 200-ZP-2 soil vapor extraction replacement system.

### CTD Cost Performance (-\$1.1M/-0.4%):

- The CTD cost variance is attributable to:
  - Project growth exceeding the plan and various prior year project overruns for well drilling offset by efficiencies in pump and treat operations and overhead passbacks;
  - Underruns associated with the Closure Services allocation.

## Performance Analysis CTD and Monthly (\$M)



## Milestone Achievement

*Hanford Federal Facility Agreement and Consent Order* (Tri-Party Agreement) milestones represent significant events in project execution. DOE Enforceable Agreement milestones were established to provide high-level visibility to critical deliverables and specific status on the accomplishment of these key events. The FY 2008 Enforceable Agreement milestone information provided herein is based upon the current baseline including RL-approved changes. Changes from month-to-month in both the total number of milestones to be completed and in the forecast status of upcoming milestones are the result of Baseline Change Requests approved during the reporting period.

Number	Milestone Title	Type	Due Date	Actual Date	Forecast Date	Status/Comments
M-024-57M	Install a Cumulative of 60 Wells	TPA	12/31/07	4/6/07		Complete
M-015-50	Submit a Treatability Work Plan for Deep Vadose Zone Technetium and Uranium to Ecology and EPA	TPA	12/31/07	12/22/07		Complete
M-016-14B	Submit Draft CERCLA Proposed Plan for 100-NR-2	TPA	12/31/09		12/31/09	TPA Change Request Revised Date to 12/31/09